

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
26 May 2005 (26.05.2005)

PCT

(10) International Publication Number
WO 2005/047923 A2

- (51) International Patent Classification⁷: **G01S 3/00** Avenue, Sunnyvale, CA 94086 (US); **PROTIC**, Voya [US/US] (US).
- (21) International Application Number: **PCT/US2004/028926** (74) Agent: **HAMILTON, Jennifer, H.**; The Eclipse Group, 10453 Raintree Lane, Northridge, CA 91326 (US).
- (22) International Filing Date:
2 September 2004 (02.09.2004) (81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/499,961 2 September 2003 (02.09.2003) US
60/546,816 23 February 2004 (23.02.2004) US
60/547,385 23 February 2004 (23.02.2004) US
- (71) Applicant (*for all designated States except US*): **SIRF TECHNOLOGY, INC.** [US/US]; 148 E. Brokaw Road, San Jose, CA 95112 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **UNDERBRINK, Paul** [US/US]; 25212 Calle Del Lago, Lake Forest, CA 92630 (US). **FALK, Henry** [IN/US]; 3150 Julian Avenue, Long Beach, CA 90808 (US). **GRONEMEYER, Steven** [US/US]; 5250 N. River Boulevard, Cedar Rapids, CA 52411 (US). **DASANNACHARYA, Chittharanjan** [IN/IN]; C-306 ATS Greens 1, Sector 50, Noida 201307 (IN). **NORMAN, Charles** [US/US]; 6071 Softwind Drive, Huntington Beach, CA 92647 (US). **TSO, Robert** [US/US]; 8034 Linwalt Street, Rosemead, CA 91770 (US). **VANTALON, Nicolas** [US/US]; 663 East McKinley
- (84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— *without international search report and to be republished upon receipt of that report*
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: **SIGNAL PROCESSING SYSTEM FOR SATELLITE POSITIONING SIGNALS**

(57) Abstract: A signal processing system for processing satellite positioning signals is described. The system comprises at least one processor and a signal processor operating under a number of operational modes. The signal processor includes at least one of a signal processing subsystem, a fast Fourier transform (FFT) subsystem, and a memory subsystem that are each dynamically and independently configurable in response to the operational modes. Further, the system includes a controller that couples to control transfer of data among the signal processing subsystem and the FFT subsystem via the memory subsystem. Configurability of the memory subsystem includes configuring the memory subsystem into regions according to the operational modes where each region is accessible in one of a number of manners according to the operational modes.

WO 2005/047923 A2